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CLAIM AMENDMENTS

WHAT IS CLAIMED IS:

This listing of the claims will replace all prior versions, and listing, of claims in the application:

1. (Currently Amended) A piezo actuator~~-(15)~~, in particular a piezo actuator for actuating an injector for an injection system of an internal combustion engine, having comprising a holder~~-(5-10)~~ for spatially fixing a piezo stack~~-(2)~~ and two associated connection pins~~-(11, 12)~~ for electrical contacting of the piezo stack~~-(2)~~, ~~e-h-a-r-a-c-t-e-r-i-z-e-d-b-y~~ wherein the holder is being implemented as an individual mount for accommodating and holding only a single piezo stack~~-(2)~~ with two associated connection pins~~-(11, 12)~~.

2. (Currently Amended) The A piezo actuator~~-(15) as according to elaimed in claim 1, e-h-a-r-a-c-t-e-r-i-z-e-d-i-n-t-h-a-t~~ wherein the holder~~-(5-10)~~ has an edge guard~~-(7, 8)~~ for protecting an axially running edge of the piezo stack~~-(2)~~.

3. (Currently Amended) A piezo actuator according to claim 2, wherein ~~The piezo actuator (15) as claimed in claim 2, e-h-a-r-a-c-t-e-r-i-z-e-d-i-n-t-h-a-t~~ the edge protection has at least one axially running rib~~-(7, 8)~~ which covers an axially running edge of the piezo stack~~-(2)~~.

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4. (Currently Amended) A piezo actuator according to claim 2, wherein ~~The piezo actuator (15) as claimed in claim 2 or 3, characterized in that~~ the edge protection ~~(7, 8)~~ covers two axially running, opposite edges of the piezo stack ~~(2)~~.

5. (Currently Amended) A piezo actuator according to claim 1, wherein ~~The piezo actuator (15) as claimed in one of the preceding claims, characterized in that~~ between the edge guard ~~(7, 8)~~ and the piezo stack ~~(2)~~ there is a gap large enough to allow a potting compound to penetrate during encapsulation.

6. (Currently Amended) A piezo actuator according to claim 1, wherein ~~The piezo actuator (15) as claimed in one of the preceding claims, characterized in that~~ the axially running edges of the piezo stack ~~(2)~~ form an at least six-sided polygon with the connection pins ~~(11, 12)~~ and the edge guard ~~(7, 8)~~ in cross-section in order to facilitate wire winding.

7. (Currently Amended) A piezo actuator according to claim 6, wherein ~~The piezo actuator (15) as claimed in claim 6, characterized in that~~ the polygon is essentially equilateral in order to allow wire winding with approximately constant wire tension.

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8. (Currently Amended) A piezo actuator according to claim 1, wherein ~~The piezo actuator (15) as claimed in one of the preceding claims, characterized in that~~ the connection pins ~~(11, 12)~~ are fixed in the holder in a form-fit and/or force-fit manner.

9. (Currently Amended) A piezo actuator according to claim 8, wherein ~~The piezo actuator (15) as claimed in claim 8, characterized in that~~ the connection pins ~~(11, 12)~~ are extrusion-coated or molded in with the material of the holder ~~(5-10)~~.

10. (Currently Amended) A piezo actuator according to claim 1, wherein ~~The piezo actuator (15) as claimed in one of the preceding claims, characterized in that~~ the holder ~~(5-10)~~ essentially consists of plastic.

11. (Currently Amended) A piezo actuator according to claim 1, wherein ~~The piezo actuator (15) as claimed in one of the preceding claims, characterized in that~~ the two connection pins ~~(11, 12)~~ are fixed in the holder ~~(5-10)~~ in two radial bearings in each case.

12. (Currently Amended) A piezo actuator according to claim 1, wherein ~~The piezo actuator (15) as claimed in one of the preceding claims, characterized in that~~ the two connection pins ~~(11, 12)~~ are axially fixed in the holder ~~(5-10)~~ in a thrust bearing in each case.

13. (Currently Amended) A piezo actuator according to claim 1, wherein ~~The piezo actuator (15) as claimed in one of the preceding claims, characterized in that~~ the holder ~~(5-10)~~ has a first end plate ~~(5)~~ with a cutout ~~(9)~~ for guiding the piezo stack ~~(2)~~ at one end and a second end plate ~~(6)~~ with a cutout ~~(10)~~ for guiding the piezo stack ~~(2)~~ at its other end, the two end plates ~~(5, 6)~~ being interconnected by ribs ~~(7, 8)~~.

14. (Currently Amended) A piezo actuator according to claim 13, wherein ~~The piezo actuator (15) as claimed in claim 13, characterized in that~~ the cutout ~~(9)~~ in the first end plate ~~(5)~~ and/or the cutout ~~(10)~~ in the second end plate ~~(6)~~ is larger than the cross-sectional area of the piezo stack ~~(2)~~ in order to allow the penetration of potting compound.

15. (Currently Amended) A piezo actuator according to claim 1, wherein ~~The piezo actuator (15) as claimed in one of the preceding claims, characterized in that~~ the holder ~~(5-10)~~ with the inserted piezo stack ~~(2)~~ and the inserted connection pins ~~(11, 12)~~ is encapsulated with a potting compound.

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16. (Currently Amended) A production method for a piezo actuator~~-(15)~~ comprising the following steps:

- Inserting a piezo stack~~-(2)~~ and two connection pins ~~{11, 12}~~ in an assembly mount~~-(1)~~,
- Establishing an electrical connection between the two connection pins~~-(11, 12)~~ and the piezo stack~~-(2)~~ while the piezo stack~~-(2)~~ and the connection pins~~-(11, 12)~~ are inserted in the assembly mount~~-(1)~~, ~~characterized in that and~~
 - ~~the assembly mount (1) only~~ accommodatinges only a single piezo stack~~-(2)~~ and the two associated connection pins ~~{11, 12}~~ by the assembly mount.

17. (Currently Amended) ~~The~~ A production method as claimed in claim 16, ~~characterized by~~ comprising the following step:

- Encapsulating the assembly mount~~-(1)~~ with the inserted piezo stack~~-(2)~~ and the inserted connection pins ~~{11, 12}~~ with a cure-hardening potting compound.

18. (Currently Amended) A production method as claimed in claim 17, comprising ~~The production method as claimed in claim 17, characterized by~~ the following steps:

- Inserting the assembly mount~~-(1)~~ with the inserted piezo stack~~-(2)~~ and the inserted connection pins~~-(11, 12)~~ in a mold and then
- Encapsulating the assembly mount~~-(1)~~ with the potting compound in the mold.

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19. (Currently Amended) A production method as claimed in claim 18, comprising~~The production method as claimed in one of the claims 16 to 18, characterized by~~ the following steps:

- Winding the assembly mount~~(1)~~ with the inserted piezo stack~~(2)~~ and the inserted connection pins~~(11, 12)~~ with at least one electrically conductive wire~~(14)~~,
- Electrically connecting sections of the wire~~(14)~~ to one of the two connection pins~~(11, 12)~~ and one of two terminals~~(4)~~ of the piezo stack~~(2)~~,
- Cutting the wire~~(14)~~ between the contacted wire sections and removing the cut wire sections.

20. (Currently Amended) A production method as claimed in claim 16, wherein~~The production method as claimed in one of the claims 16 to 19, characterized in that~~ the assembly mount~~(1)~~ has at least one edge guard~~(7, 8)~~ in order to protect an axially running edge of the piezo stack~~(2)~~.

21. (Currently Amended) A production method as claimed in claim 15, wherein~~The production method as claimed in one of the claims 15 to 20, characterized in that~~ the potting compound is silicone.